Sunday May 28			
14:00 – 18:00	Registration	Room 3 – Tutorial: Bond Graph Modelling and Simulation of Mechatronic Systems. Prof. W. Borutzky and Ir. J. Hemssems	Room 4 –Tutorial: Through the Evolution of Publish/Subscribe Systems. Ing. E. Casalicchio and Ing. F. Morabito
18:00 - -- --	Welcome Party (building E, ground floor)		

Monday May 29		
9:00 – 9:45	Opening Session (main lecture hall)	
9:45 – 10:45	Keynote Speech by Prof. Zadeh (main lecture hall)	
10:45 – 11:15	Coffee Break	
11:15 – 13:15	Presentation Sessions	
	Room 1	IS: Evolutionary Systems SESSION CHAIR: DR. LARS NOLLE 8 FROM COMPUTABILITY TO SIMULABILITY. Tudor Niculiu 77 SANTA FE TRAIL FOR ARTIFICIAL ANT WITH SIMULATING ANNEALING. Zuzana Oplatkova, Ivan Zelinka 115 ANT ROUTING VS. Q-ROUTING IN TELECOMMUNICATION NETWORKS. Andrzej Pacut, Malgorzata Gadomska, Andrzej Igielski 137 ON THE IMPLEMENTATION OF A TRANSIENT MODEL FOR AN INTELLIGENT TARGET MOTION ANALYSIS SYSTEM. Lars Nolle 147 AN ALTERNATIVE TO RANDOM GENERATION OF THE INITIAL POPULATION FOR GENETIC ALGORITHMS. Shane Lee, Hefin Rowlands
	Room 2	HPC&S: PARALLEL & DISTRIBUTED SIMULATION TECHNIQUES & SOLUTIONS SESSION CHAIR: PROF. DAVID AL-DABASS H-1035 MALLEABLE PROGRAMMING WITH HYBRID MPI-2 AND OPEN MP - EXPERIENCES WITH A SIMULATION PROGRAM FOR GLOBAL WATER PROGNOSIS. Claudia Leopold, Michael Süß, Jens Breitbart H-1006 DATA DISTRIBUTION MANAGEMENT FOR HIGH PERFORMANCE DISTRIBUTED SIMULATION IN RESOURCE-CONSTRAINT ENVIRONMENT. Pankaj Gupta, Ratan K. Guha H-1005 A COMPARISON OF PARALLELIZATION AND PERFORMANCE OPTIMIZATIONS FOR TWO RAY-TRACING APPLICATIONS. Chen Yang, Xiong Fu, Chu-Cheow Lim, Roy Ju, Yongjian Chen PERFORMANCE EVALUATION, MODELING, AND BENCHMARKING TECHNIQUES SESSION CHAIR: PROF. YUDITH CARDINALE H-1014 THROUGHPUT PERFORMANCE OF JAVA MESSAGING SERVICES USING SUN JAVA SYSTEM MESSAGE QUEUE. Robert Henjes, Michael Menth, Christian Zepfel H-1043 ANALYSIS/SIMULATION OF COMPLEX SWN MODELS: A STRUCTURAL APPROACH. Lorenzo Capra
	Room 3	BG: BOND GRAPH FOR CONTROL, ANALYSIS AND FDI DESIGN SESSION CHAIR: PROF. AHMED RAHMANI 65 DECOUPLING OF LINEAR TIME-VARYING SYSTEMS WITH A BOND GRAPH APPROACH. Stefan Lichiardopol, Christophe Sueur. 113 ENERGY SHAPING AND INTERCONNECTION AND DAMPING ASSIGNMENT CONTROL IN THE BOND GRAPH DOMAIN. Alejandro Donaire, Sergio Junco

		134 BOND GRAPH BASED MODAL REPRESENTATIONS AND MODEL REDUCTION OF LUMPED PARAMETER SYSTEMS. Loucas Louca 97 RESIDUAL BOND GRAPH SINKS FOR NUMERICAL EVALUATION OF ANALYTICAL REDUNDANCY RELATIONS IN MODEL BASED SINGLE FAULT DETECTION AND ISOLATION. Wolfgang Borutzky 46 AUTOMATED REDESIGN OF BOND GRAPH MODELS BASED ON FREQUENTIAL SPECIFICATIONS. Anca-Maria Pirvu, Genevieve Dauphin-Tanguy, Philippe Kubiak
	Room 4	**ABS: AGENT-BASED SIMULATION I** **SESSION CHAIR: PROF. EUGÈNE KERCKHOFFS** 16 BETA AS AGENT BASED SIMULATION LANGUAGE. Frantisek Hunka 31 NESTING SIMULATING AGENTS. Eugene Kindler 75 SIMULATING ORGANIZATIONAL CHANGE TRIGGERED BY A CHANGING ENVIRONMENT. Mark Hoogendoorn, Catholijn M. Jonker, Jan Treur 96 CYBERCROMLECH: THE NEW FRAMEWORK FOR COLLECTIVE BEHAVIOUR GAME EXPERIMENTS. Alexey Botchkaryov, Serhiy Kovela 3 OSMAS: A MULTI-AGENT TESTBED FOR EXPERIMENTING WITH ORGANIZATIONAL STRUCTURES. Trevor Moores
	Room 5	**IBS: MODELLING & SIMULATION FOR THE INDUSTRY** **SESSION CHAIR: DR. ALESSANDRA ORSONI** 29 APPLICATION OF COLOURED PETRI NETS IN THE PROSPECTIVE ANALYSIS OF COOPERATIVE PROVISION OF INDUSTRIAL SERVICES. Katrin Winkelmann, Holger Luczak 37 THE FORMALIZATION AND INVESTIGATION OF PROCESSES FOR STRUCTURE-DYNAMICS CONTROL MODELS ADAPTATION OF COMPLEX BUSINESS SYSTEMS. Dmitry Ivanov, Boris Sokolov, Evgeniy Zaychik 59 DIGTAL FACTORY - INTEGRATION OF SIMULATION FROM PRODUCT AND PRODUCTION PLANNING TOWARDS OPERATIVE CONTROL. Wolfgang Kuehn 85 SELF ORGANISING STRUCTURES OF AD-HOC COOPERATIONS FOR CUSTOMIZED PRODUCTS AND SERVICES. Nikolaos Karadimas, Alexander Tsigkas, Vassili Loumos 58 INTERACTIVE WEB-BASED DISCRETE-EVENT SIMULATION - A MAJOR CONTRIBUTION TO BLENDED LEARNING. Wolfgang Kuehn, Michael Kordt, Roland Grah 109 GMOD+: AN INNOVATIVE TAX-BENEFIT MICROSIMULATION MODELING TOOL. Gerhard Wagenhals, J Buck
	Room 6	**ASMTA: QUEUING SYSTEMS** **SESSION CHAIR: PROF. KHALID AL-BEGAIN** A-01 ANALYTIC COMPUTATION OF END-TO-END DELAYS IN QUEUEING NETWORKS WITH BMAP/PH/1 QUEUES. Sven Söhnlein, Armin Heindl A-10 THE SM/PH/N QUEUEING SYSTEM WITH BROADCASTING SERVICE. Alexander Dudin, Valentina Klimenok, Che Soong Kim, Moon Ho Lee A-12 OPTIMAL MULTITHRESHOLD CONTROL FOR BMAP/SM/1 QUEUE WITH MAP-INPUT OF DISASTERS. Olga Semenova A-22 QUEUES WITH DISRUPTIVE AND NON-DISRUPTIVE VACATIONS. Dieter Fiems, Tom Maertens, Herwig Bruneel
13:15 – 14:15	**Lunch Break**	
14:15 – 15:15	**Keynote Speech by Prof. Trottenberg (main lecture hall)**	
15:15 – 15:45	**Coffee Break**	

15:45 – 17:15	**Presentation Sessions**

	Room 1	**SE: COMPUTATIONAL M&S IN SCIENCE AND ENGINEERING I** **SESSION CHAIR: PROF. DIETMAR MOELLER** 10 DISTRIBUTED PARAMETER MODEL ORIENTED IDENTIFICATION. Mircea Cehan-Racovita 17 EVALUATION OF CONTAMINATION BY USING HYDROGEOLOGICAL MODEL FOR THE INCUKALNS AREA, LATVIA. Aivars Spalvins, Janis Slangens 23 SPECTRAL STUDY ON THE VOLTAGE WAVEFORM OF CLAW POLE AUTOMOTIVE ALTERNATOR. Mini K. Idiculla, K.P.P. Pillai, Achuthsankar S.Nair 27 SENSITIVITIES OF THE MSIS-86 THERMOSPHERE MODEL. Martin Buecker, Andre Vehreschild
	Room 2	**HPC&S:** **PARTITIONING AND SCHEDULING ALGORITHMS IN GIRD AND HIGH PERFORMANCE ENVIRONMENTS** **SESSION CHAIR: PROF. SERGE CHAUMETTE** H-1039 PERFORMANCE ANALYSIS OF GANG SCHEDULING IN A PARTITIONABLE PARALLEL SYSTEM. Helen D. Karatza H-1003 AN EVALUATION OF JOB SCHEDULING STRATEGIES FOR DIVISIBLE LOADS ON GRID PLATFORMS. Yudith Cardinale, Henri Casanova **INTERNET AND WEB COMPUTING AND SERVICES AND APPLICATIONS** **SESSION CHAIR: PROF. RATAN GUHA** H-1052 A PETRI NET-BASED WORKFLOW MODELING FOR A HUMAN-CENTRIC COLLABORATIVE COMMERCE SYSTEM. Seung-yun Kim and Waleed Smari H-1054 S-CBR: SEMANTIC CASE BASED REASONER FOR WEB SERVICES DISCOVERY AND MATCHMAKING. Dhavalkumar Thakker, Taha Osman, David Al-Dabass H-1040 MULTI AGENT IMPLEMENTATION OF AN URBAN ROAD TRAFFIC ADVISOR. Camelia Avram, Adina Astilean, Tiberiu Letia
	Room 3	**CS: SIMULATION OF COMPLEX SYSTEMS** **SESSION CHAIR: PROF. ANDRZEJ DZIELINSKI** 44 A COMPARISON OF BIG R AND THE TSP MULTIVARIATE CORRELATION STATISTICS. William Conley 84 USE OF PETRI NETS AND BUSINESS PROCESSES MANAGEMENT NOTATION IN MODELLING AND SIMULATION OF MULTIMOD. Ryszard Koniewski, Andrzej Dzielinski, Krzysztof Amborski 100 VIDEO EXTENSOMETER PICTURE ANALYSIS FOR RUBBERLIKE MATERIALS MODELING. Jan Amborski, Rafal Kajka, Michal Lyczek, Zbigniew Wolejsza, Jerzy Osinski 116 MODELING OF LARGE DEFORMATED ELASTOMETRIC SLEEVE USING FINITE ELEMENT METHOD. Jan Amborski 135 FAULT DIAGNOSIS OF COMPLEX SYSTEMS BASED ON MODULAR KNOWLEDGE BASE AND INFORMATION COMPRESSION. Gancho Vachkov
	Room 4	**METH: MODELLING & SIMULATION METHODOLOGIES I** **SESSION CHAIR: MR. MATHIAS ROEHL** 73 OSA : AN OPEN COMPONENT-BASED ARCHITECTURE FOR DISCRETE-EVENT SIMULATION. Olivier Dalle 80 SIMULATING THE ECLIPSE WAY: A GENERIC EXPERIMENTATION ENVIRONMENT BASED ON THE ECLIPSE PLATFORM. Rainer Czogalla, Nicolas Knaak, Bernd Page 47 DESIGN OF A HIGHER LEVEL ARCHITECTURE FOR NETWORK SIMULATORS. Erek Gokturk 71 HIGHER-LEVEL MODELLING LANGUAGES AND (ANTI) REDUCTIONIST PERSPECTIVES WITHIN PHILOSOPHY. Catholijn M. Jonker, Jan Treur

	Room 5	**CHMCST:** **CHAOS MODELLING, CONTROL & SIGNAL TRANSMISSION** **SESSION CHAIR: PROF. IVAN ZELINKA** 36 CONTROL OF ISOMERIZATION IN ENSEMBLES OF NONRIGID MOLECULES. Alexander Efimov, Mikhail Ananyevskiy, Florentino Borondo, Rosa Benito, Alexander Fradkov, Dmitry Yakubovich 55 MODELING AND SPEED-GRADIENT CONTROL OF PASSAGE THROUGH RESONANCE FOR THE TWO-ROTOR VIBRATIONAL UNIT. Dmitry Tomchin, Alexander Fradkov 88 INVESTIGATION ON EVOLUTIONARY EDTAS CHAOS CONTROL. Roman Senkerik, Ivan Zelinka, Eduard Navratil 112 PRELIMINARY RESULTS OF DETERMINISTIC CHAOS CONTROL THROUGH COMPLEXITY MEASURES. Eduard Navratil, Ivan Zelinka, Roman Senkerik
	Room 6	**ASMTA: PERFORMANCE MODELS** **SESSION CHAIR: TBA** A-02 COMPATIBILITY OF MULTICAST AND SPATIAL TRAFFIC DISTRIBUTION FOR MODELING MULTICORE NETWORKS. Dietmar Tutsch, Daniel Lüdtke A-15 ANALYTICAL INTERCONNECTION NETWORKS MODEL FOR MULTI-CLUSTER COMPUTING SYSTEMS. Bahman Javadi, Mohammad K. Akbari, Jemal H. Abawajy A-14 WAITING TIME DISTRIBUTION OF THE AAL2 MULTIPLEXER IN UTRAN. Gábor Horváth, Csaba Vulkán A-27 APPROXIMATION OF THE VARIANCE OF WAITING TIME IN A TWO-QUEUE TIME PRIORITY SYSTEM. Lassaad Essafi, Gunter Bolch
17:30 - -- --	**Departure for the tour to Clogne OR the tour to Bonn**	

Tuesday May 30		
9:00 – 10:00	**Keynote Speech by Prof. Cellier (main lecture hall)**	
10:15 – 10:45	**Coffee Break**	
10:45 – 13:15	**Presentation Sessions**	
	Room 1	**IS: MACHINE LEARNING** **SESSION CHAIR: PROF. IVAN ZELINKA** 2 RESEARCH AND DEVELOPMENT ON SEARCHING A ROUTING PATH OF A DYNAMIC TERRAIN. Jui-Fa Chen, Wayne Lin 74 INDEPENDENT COMPONENT ANALYSIS FOR RADIO NETWORK PREDICTION ENHANCEMENT. Zakaria Nouir 114 AN INTELLIGENT HYBRID FUZZY PID CONTROLLER. Isin Erenoglu, Ibrahim Eksin, Engin Yesil, Mujde Guzelkaya 144 GENERATING CLASSIFICATION RULES FROM NUMERICAL DATA WITH MISCLASSIFICATION COST. Tomoharu Nakashima, Yasuyuki Yokota, Gerald Schaefer, Hisao Ishibuchi
	Room 2	**HPC&S:** **SECURITY, AUTHENTICATION, AND ACCESS CONTROL** **SESSION CHAIR: PROF. CHRISTIAN TOINARD** H-1060 A PEER TO PEER PLATFORM USING SANDBOXING. Fabien Hantz, Hervé Guyennet H-1061 A HIGH LEVEL SECURITY FRAMEWORK FOR THE GRID: THE JAVA CARD GRID TESTBED. Serge Chaumette, Damien Sauveron **APPLICATION SPECIFIC AND POWER AWARE ARCHITECTURES** **SESSION CHAIR: PROF. CLAUDIA LEOPOLD** H-1045 HIERARCHICAL OPTIMIZATIONS FOR HIGH SPEED IMPLEMENTATION OF MODULAR EXPONENTIATION IN ASIC. Xuemi Zhao, Zhiying Wang, Hongyi Lu and Kui Dai

		H-1037 LEAKAGE ENERGY REDUCTION IN ON-CHIP MICROPROCESSOR CACHES. Zhang Chengyi, Zhang Minxuan, Xing Zuocheng **CLOSING REMARKS** **PROFESSORS HELEN KARATZA AND WALEED SMARI**
	Room 3	**BG: BOND GRAPH APPLICATIONS** **SESSION CHAIR: PROF. WOLFGANG BORUTZKY** 93 KINEMATIC ANALYSIS OF MECHANISM BY USING BOND-GRAPH LANGUAGE. Gregorio Romero, Jesus Felez, Maria L. Martinez, Joaquin Maroto 83 BOND GRAPH BASED MODELLING AND SIMULATION OF FLEXIBLE ROBOTIC MANIPULATORS. Vjekoslav Damic, Majda Cohodar 76 MODELING ONE-DIMENSIONAL INCOMPRESSIBLE DUCT FLOWS. Jorge Luis Balino 6 INTEGRATED MODEL OF CHEMICAL REACTOR. Khaled Ahmed Redouane 34 A BOND-GRAPH METHOD FOR FLATNESS-BASED DYNAMIC FEEDBACK LINEARIZATION CONTROLLER SYNTHESIS: APPLICATION TO A CURRENT-FED INDUCTION MOTOR. Ali Achir, Sergio Junco, Alejandro Donaire, Christophe Sueur
	Room 4	**ABS/STUD: AGENT-BASED SIMULATION II & STUDENT PAPER** **SESSION CHAIR: PROF. EUGÈNE KERCKHOFFS** 33 INDISIM-SOM, AN INDIVIDUAL-BASED MODEL TO STUDY SHORT-TERM EVOLUTIONS OF CARBON AND NITROGEN POOLS R. Anna Gras, Marta Ginovart 60 AGENT-BASED SIMULATION OF DISTRIBUTED DEFENSE AGAINST COMPUTER NETWORK ATTACKS. Igor Kotenko, Alexander Ulanov 110 AGENT-BASED AND DISCRETE EVENT SIMULATION OF AUTONOMOUS LOGISTIC PROCESSES. Markus Becker, Bernd-Ludwig Wenning, Carmelita G, Jan D. Gehrke, Martin Lorenz, Otthein Herzog 42 EMERGENCE OF TRAFFIC LIGHTS SYNCHRONIZATION. Denise de Oliveira, Ana Bazzan 9 AN ARCHITECT MODEL FOR UNDERGROUND SPACE EVALUATION SIMULATION. Chengyu Sun **AGENT-BASED SIMULATION STUDENT PAPER** **SESSION CHAIR: PROF. ZUZANA OPLATKOVA** 43 INTELLIGENT SELECTION OF REALIZATIONS WITHIN THE AGENT BEHAVIOR. Michal Radecky
	Room 5	**IBS: MODELLING & SIMULATION FOR PROJECTS, LOGISTICS AND SERVICES** **SESSION CHAIR: PROF. JAVIER OTAMENDI** 68 MUNICIPAL SOLID WASTE GENERATION MODELLING BASED ON FUZZY LOGIC. Alessandra Orsoni, Nikolaos Karadimas 82 THE ROLE OF MODELLING AND SIMULATION IN DESIGN-BUILD PROJECTS. Nikolaos Karadimas, Alessandra Orsoni 104 DYNAMIC ANALYSIS OF THE WAITING AREA IN A PUBLIC STATION. Javier Otamendi, Jos Pastor 111 SIMULATION OF MARITIME TRANSIT TRAFFIC IN THE ISTANBUL CHANNEL. Alper Almaz, İlhan Or, Birnur 118 SCHEDULING TO IMPROVE QUEUE JUSTICE. Werner Sandmann
	Room 6	**ASMTA: COMMUNICATION SYSTEMS MODELS** **SESSION CHAIR: TBA** A-21 ERROR CONTROL IN VOICE OVER IP OVER BLUETOOTH. Redouane Ali , John Pollard A-20 DIMENSIONING OF A DEIITTERING BUFFER FOR VARIABLE BIT RATE STREAMS. Kathleen Spaey, Chris Blondia

		A-28 RETRIAL QUEUEING MODEL FOR MULTIMEDIA OVER DOWNLINK IN 3.5G WIRELESS NETWORKS. Khalid Al-Begain (UK), Alexander Dudin, Vilena Mushko (Belarus)
13:15 – 14:15	**Lunch Break**	
14:15 – 15:15	**Bond Graph: Plenary Speech by Prof. Sergio Junco (lecture hall No 3)**	
15:15 – 15:45	**Coffee Break**	
15:45 – 17:15	**Presentation Sessions /**	
	Room 1	**SE: COMPUTATIONAL M&S IN SCIENCE & ENGINEERING II** **SESSION CHAIR: PROF. DIETMAR MOELLER** 63 ON LINE ADAPTATION TO VARIABLE CONDITIONS WITH VARIABLE ENVELOPE STRUCTURE IN FUTURE BUILDINGS. Borut Zupančič, Igor , Ales Krainer, Kristl, Mitja Kosir 64 IMPROVED A* ALGORITHM FOR QUERY OPTIMIZATION. Amit Goyal, Ashish Thakral, GK Sharma
	Room 2	**IND: SIMULATION APPLICATIONS IN INDUSTRY I** **SESSION CHAIR: PROF. AGOSTINO BRUZZONE** 53 AUTOMATED WAREHOUSE DESIGN USING VISUAL INTERACTIVE SIMULATION. Brito Antonio, Jose Basto 62 SIMULATION FOR FACILITY LAYOUT REDESIGN. Angeliki Karagiannaki, Les Oakshott 66 A MODEL FOR CURING IN RUBBER MOLDING USING THE FINITE ELEMENT TOOLBOX ALBERTA. Daniel Koester, Paulo Porta 102 FLEXIBLE GENERATION OF REPORTS FOR SIMULATION-BASED EARLY WARNING SYSTEMS USING XML. Ingo Hotz, Thomas Schulze
	Room 3	**LT: MODELLING AND SIMULATION IN PRODUCTION, LOGISTICS & TRANSPORT** **SESSION CHAIR: PROF. GABY NEUMANN** 54 ESTIMATION OF SATURATION FLOW OF HETEROGENEOUS TRAFFIC USING COMPUTER SIMULATION. Thamizh Arasan, Perumal Vedagiri 61 ANALYSING DIFFERENT ORDERING POLICIES IN A SERIES SUPPLY CHAIN BY USING COLOURED PETRI NETS. Christos Papanagnou, George Halikias 120 A METHODOLOGICAL APPROACH TO IMPROVE KNOWLEDGE EXPLICATION FROM LOGISTICS. Gaby Neumann 138 SIMULATION-BASED RISK MEASUREMENT IN SUPPLY CHAINS. Ruslan Klimov, Yuri Merkuryev
	Room 4	**METH: MODELLING & SIMULATION METHODOLOGIES II** **SESSION CHAIR: MR JAN TREUR** 51 IMPLEMENTATION OF EXACT SENSITIVITIES IN A CIRCUIT SIMULATOR USING AUTOMATIC DIFFERENTIATION. Carlos Christoffersen 32 TESTING OF JUTS SYSTEM AND CONSTRUCTION OF HYBRID TRAFFIC SIMULATION MODEL. David Hartman 119 MODEL REDUCTION USING NEURAL NETWORKS APPLIED TO THE MODELING OF INTEGRATED URBAN WASTEWATER SYSTEMS. Botond Raduly, Krist Gernaey, Erik Lindblom, Andrea Capodaglio 121 PHENOMENON COMPUTATIONAL PATTERN: COUPLING RELATIONSHIP BETWEEN PHENOMENA ON MULTIPHYSICS SIMULATION. Felix Santos, Jos Barbosa, Eduardo Brito Jr.
	Room 5	**IBS/GAME:** **MODELLING & SIMULATION FOR BUSINESS & SERVICES** **SESSION CHAIR: DR. SERHIY KOVELA** 106 MULTIAGENT MODELING AND SIMULATION OF CONSUMER BEHAVIOR TOWARDS PAYMENT SYSTEM SELECTION. George Rigopoulos, John Psarras, Nikolaos Karadimas

		117 ANALYSIS OF CUSTOMER DEMAND TO CAPTURE CUSTOMER DEMAND KNOWLEDGE. Si Yajing, Qi Jiayin, Shu Huaying, Ai Hua 11 ANALYSIS OF TARGET INVENTORY VIA DISCRETE-EVENT SIMULATION. Edward Williams, Zottolo Marcelo 132 A SIMULATION MODEL FOR LONG-TERM ANALYSIS OF THE ELECTRICITY MARKET. İlhan Or, Guzay Pasaoglu Kilanc **COMPUTER GAMES AND SIMULATION I** **SESSION CHAIR: PROF. QASIM MEHDI** 99 TOWARDS PRACTICAL VIRTUAL TRAINING ENVIRONMENT THROUGH VR TECHNOLOGY. Huminori Takamura , Norihiro Abe, Kazuaki Tanaka, Hirokazu Taki , Shoujie He
	Room 6	**ASMTA: QUEUING SYSTEMS II** **SESSION CHAIR: TBA** A-13 A NEW DYNAMIC PRIORITY SCHEME: PERFORMANCE ANALYSIS. Tom Maertens, Joris Walraevens, Marc Moeneclaey, Herwig Bruneel A-19 ANALYSIS OF A TWO-NODE QUEUEINGNNETWORK WITH FLOW CONTROL AND NEGATIVE ARRIVALS. Pavel Bocharov, Dmitry Lyubin, Javier Albores, Rosalia Cabrera A-25 POTENTIALS AND CHALLENGES OF TRANSIENT ANALYSIS FOR SERVER AND QUEUEING SYSTEMS. Gerhard Haßlinger, Sebastian Kempken A-23 OPTIMIZATION OF BUFFERS CAPACITY IN TANDEM QUEUEING SYSTEMS WITH BATCH MARKOVIAN ARRIVALS. Che Soong Kim Alexander Dudin, Valentina Klimenok, Gennadiy Tsarenkov
19:30 – 23:00	**Conference Dinner (Bonn, former Foreign Office)**	

Wednesday May 31		
9:00 – 10:30	**Presentation Sessions**	
	Room 1	**VV: VISION &VISUALIZATION** **SESSION CHAIR: DR. DMITRY NIKOLAEV** 39 A JAVA FRAMEWORK FOR ANALYSING AND PROCESSING WOUND IMAGES FOR MEDICAL EDUCATION. Augustin Prodan, Madalina Rusu, Remus Campean, Rodica Prodan 141 LOSSLESS COMPRESSION OF COLOR MEDICAL RETINAL IMAGES. Roman Starosolski, Gerald Schaefer 139 DATA VIZUALIZATION: FROM X-RAY MEASUREMENTS TO THE ATOMIC STRUCTURE VIA WAVELET. Marina Chukalina, Harald Funke 140 A HYBRID DIFFERENTIAL EVOLUTION APPROACH TO COLOUR MAP GENERATION. Gerald Schaefer, Lars Nolle 126 COLOR-TO-GRAYSCALE IMAGE TRANSFORMATION PRESERVING THE GRADIENT STRUCTURE. Dmitry Nikolaev, Simon Karpenko
	Room 2	**IND: SIMULATION APPLICATIONS IN INDUSTRY II** **SESSION CHAIR: PROF. AGOSTINO BRUZZONE** 107 TRACKING TIME ADJUSTMENT IN BACK CALCULATION. Hayk Markaroglu, Mujde Guzelkaya, Ibrahim Eksin, Engin Yesil 143 CONTAINER TERMINAL SCENARIOS ANALYSIS AND AWARENESS TROUGH MODELING & SIMULATION. Matteo Brandolini, Francesco Longo, Giovanni Mirabelli, Enrico Briano
	Room 3	**BG: MEDICINE, METHODOLOGY, VIRTUAL REALITY** **SESSION CHAIR: PROF. BELKACEM BOUAMAMA** 133 TWO DIMENTIONAL BOND GRAPH MODEL OF A SARCOMER. Abdennasser Fakri, FranÃ§ois Rocaries 127 PICTURES AND DIMENSIONAL ANALYSIS FOR

		BONDGRAPHS. Jean U. Thoma, Gianni Mocellin 128 VIRTUAL REALITY: THE NEED FOR BOND GRAPHS. Jean U. Thoma, Gianni Mocellin
	Room 4	**METH: MODELLING & SIMULATION METHODOLOGIES III** **SESSION CHAIRS: PROF. CARLOS CHRISTOFFERSEN AND PROF. OLIVIER DALLE** 26 A METAMODEL FOR THE HLA OBJECT MODEL. Deniz Cetinkaya, Halit Oguztuzun 45 A UML SIMULATOR BASED ON A GENERIC MODEL EXECUTION ENGINE. Andrei Kirshin, Dany Moshkovich, Alan Hartman 35 PLATFORM INDEPENDENT SPECIFICATION OF SIMULATION MODEL COMPONENTS. Mathias Roehl
	Room 5	**GAME: COMPUTER GAMES AND SIMULATION I** **SESSION CHAIR: PROF. QASIM MEHDI** 25 A FRAMEWORK FOR IMPLEMENTING DELIBERATIVE AGENTS IN COMPUTER GAMES AND INTERACTIVE MEDIA. Nicholas Davies, Quasim H. Mehdi, Norman E. Gough 131 ENHANCING INTELLIGENCE OF BUSINESS SIMULATION GAMES. Jana Bikovska, Galina V. Merkuryeva, Robert W. Grubbström
	Room 6	**ASMTA: METHODOLOGY AND SOLUTIONS** **SESSION CHAIR: TBA** A-04 TRAINING HIDDEN NON-MARKOV MODELS. Claudia Isensee, Fabian Wickborn, Graham Horton A-16 RELIABLE COMPUTATION OF WORKLOAD DISTRIBUTIONS USING SEMI-MARKOV PROCESSES. Sebastian Kempken, Wolfram Luther, Daniela Traczinski, Gerhard Haßlinger A-17 MULTIPLICATIVE SOLUTION FOR EXPONENTIAL G-NETWORKS WITH DEPENDENT SERVICE AND PREEMPTIVE RESUME OF SERVICE OF KILLED CUSTOMERS. Pavel Bocharov, Alexander Pechinkin, Rosanna Manzo A-31 EFFICIENT IMPLEMENTATION OF ALGORITHM FOR CALCULATING THE STATIONARY DISTRIBUTION FOR M/PH/C SYSTEM WITH ADDRESSED STRATEGY OF RETRIALS. Vilena Mushko
10:30 – 11:00	**Coffee Break**	
11:00 – 12:15	**Presentation Sessions**	
	Room 1	**SE: COMPUTATIONAL M&S IN SCIENCE AND ENGINEERING III** **SESSION CHAIR: PROF. DIETMAR MOELLER** 90 SIMULATION STUDY OF THE CSTR REACTOR FOR CONTROL PURPOSES. Ivan Zelinka, Jiri Vojtesek, Zuzana Oplatkova 136 COMPUTATION OF SPIN-WAVE SPECTRA OF MAGNETIC NANOSTRUCTURES FOR INFORMATION STORAGE SYSTEMS. Markus Bolte, Guido Meier, Massoud Najafi, Moeller Dietmar
	Room 2	
	Room 3	
	Room 4	
	Room 5	**IBS: SPECIALISED SOLUIONS & MODELS FOR THE INDUSTRY** **SESSION CHAIR: DR. RICARDO GONCALVES** 86 SIMBA: A SIMULATION ENVIRONMENT FOR BLUETOOTH. Marco Goenne 92 DESIGNING OF ADJUSTABLE SPEED ELECTRIC DRIVE SYSTEM. Victor Petrushin, Grygoriy Osipov, Boris Kalenik 108 DECISION MAKING TOOL FOR ASSESSMENT OF LEASING POLICIES OF A SATELLITE OPERATOR. Elena Sarri, George P. Papavassilopoulos
	Room 6	**ASMTA: STATISTICS AND APPLICATIONS** **SESSION CHAIR: TBA**

		A-09 REGRESSION MODEL OF SALES VOLUME FROM WHOLESALE WAREHOUSE. Diana Santalova A-11 APPLICATION OF THE SUFFICIENT EMPIRICAL AVERAGING METHOD IN ONE STATISTICAL PROBLEM SOLVING. Catherine Zhukovskaya A-18 A MULTI-SERVER QUEUE WITH NEGATIVE CUSTOMERS AND PARTIAL PROTECTION OF SERVICE. Valentina Klimenok, Che Soong Kim, Anton Kuznetsov A-24 BROWNIAN RATCHET WITH TIME DELAY ON PERIODIC SURFACE. Renata Retkute, James P Gleeson
12:15 – 13:00	**Closing Session (main lecture hall)**	
13:00 – 13:30	**Break**	
13:30 - -- --	**Departure for the visit of the German Aerospace Centre**	